

09/581500

117

FIG. 2.

FIG. 3.

FIG. 4.

FIG. 5.

PAGE. 80

09/581500

FIG. 6

2/7

CTTCTCNATGANTGGACAAATGTCATTGGGTCAGCATGAGGCACAGCTT
ACCAGTTCCAGATTCCAGTAGCTGAGGAACAAATCTTAACCTCAAAAATAA
GTAATTGCGTCACTTTGGAGGAATTATTTGACCTTTTCATAACTTTGACAT
CACAACAATGAGGGTGAAGTTAGTAAAATAAATGATTATTATGAGGATAA
AATGAGAAAATGAATTNAGTGCTTAAGACAATGCTTGTAAGTAGTTAAN
CCG

FIG. 7

GGTNTTTCACCTTGGTTGGTTAACATTACTTCTAAGTTTTTTATTGTTTTTA
TGCTATTGCTAATGGGATTGCTTCTTAATTTATTTTTTCCAATAGCTTGT
TGTTAGTTTATATCAAATGCAACTGTTTTCTATGCAAATTATGTTTCCT

FIG. 8

TTGGTGGTGCCCTAGGTTTGGCAATTATAAATAAAGCTGCTACAAACATT
CATGTGCAGGTCTCCGTGTGGACATAATTTCCAGTTCATTTGGGTAAAA
CCCAAGGGAGCACAACTGTTGGATCCTATNATAAAAATATNTCTCGTTTC
ATTTAAAAAACCTGGGAAACTATCTNCCCACAGTGGCTGTCCCTTTTGT
ATCCCCACCAACAATGTTGGAAAGCCTATTGCCANCAT

FIG. 9

CATGNCTCACAGTGTTCTGAGGCTGCTCTGGACATGCAATCTTGCATGC
TTTTGTCATGACAGGTCTTAAANAGTTTATCAGCTTNCTCAAATAGCTGAA
TGACANAACACTGGATTTTTGTTCAAATANCCTATCAACTTGGCNTCTGT
GTTGCGGTTGTCACCTGGTAACAAAATAAGTC

FIG. 10

TAATTGACAAATAAAAATTGTATATTTTNCATATTTAACATGTTATGCTAAC
ATATATATGGATTGTGGAATGGCTAAGTCAGAAATCTTTTACATTCATAT
TTCCATATTATTTACTTTNNGCTTTAAAAAATATGTAAATGANAACTTAT
TTTTTTCAGTGTCACTGCCTTGATACTTTTACATTTNNGTTACATATTATT
CCCTTNCATCTAACAAATATATATTGAGTTTCTATAATGTGTCTGACACTG
A

FIG. 11

TGGTCACTGGTGCCTTATTTGGTTTGTTTGCTGAGGTCATATTTCTGTG
GCCTTCATGCTTGATTTGTTGGAGTCTAGCCATGTAAAANTCTGTTGGAG
TCTAGGCATTTAAAAAATAGGTATTTATTGTAATCTTTGCCATTTGCTTGT
TTGTATCCATCCTTCTTGGGAAGGCTTTACAGGCATTCAAAGG

09581500 2.1.1400

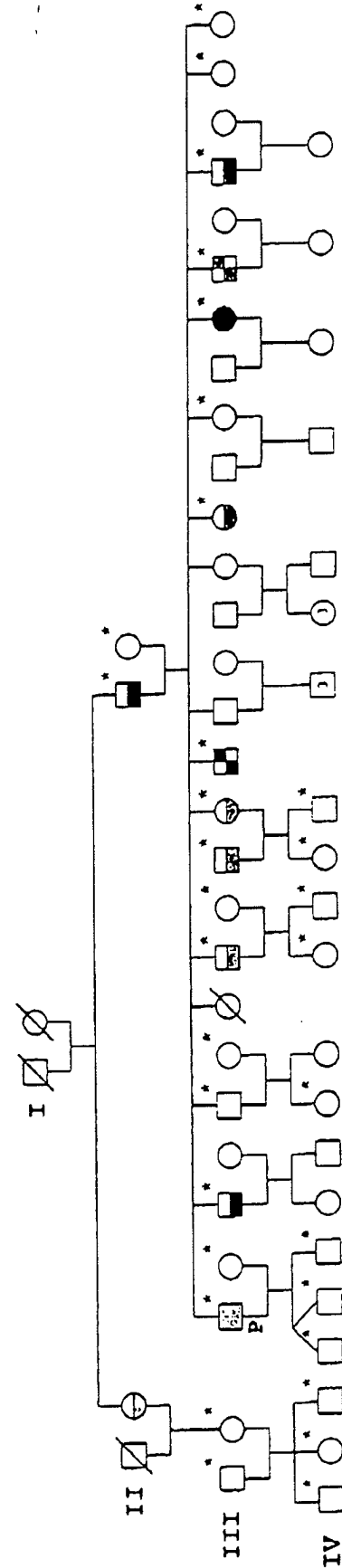
09/581500

3/7

healthy male/female
 deceased male/female
 BPI
 BPII
 UP
 MDD
 SAM
 SAD
 proband
 included in analysis
 P *

FIG. 12.

MAD31



09/581500

4/7

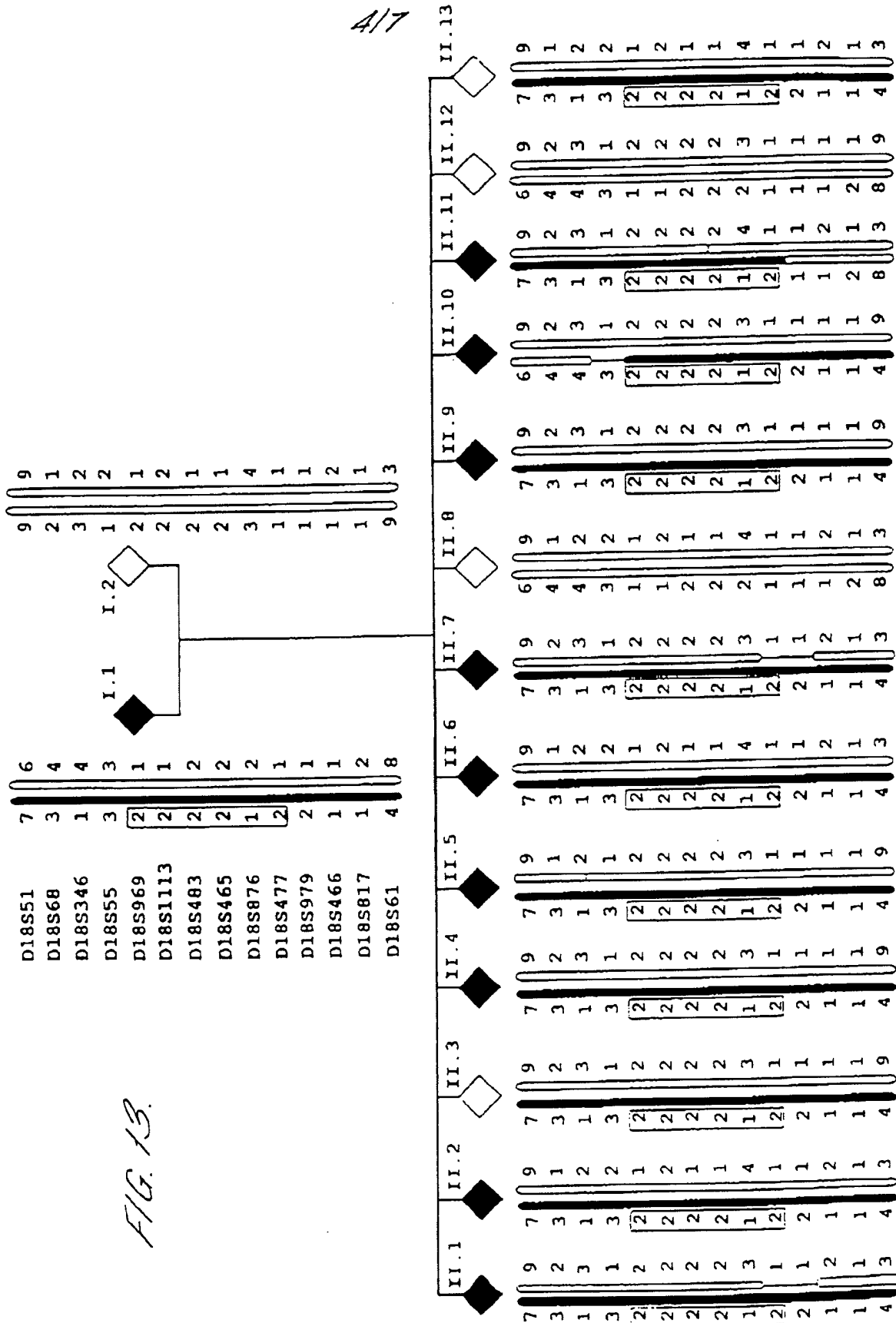
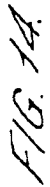


FIG. 13.

5/7



09/581500

FIG. 15a.

6/7

GCCAACAAACAAAATGAAATAAGACCTGGGATGTATTTTTGGCCAAGGCAATTAGAAA
ATGATTAGTATCCTTATCAGGAGCAATTCAGAGAATGTTTGGGTGGACGTCTAACTACA
GTGGAGTCAAACGTGAATCAACGGTGAAAAAAGGACAATAGCCAATGTGTACACTTTTT
ATAAAAACCACCCTCCAAGGACCAGGCACTGGCCCTCTCTCCGGTGCCACAGACATC
CACACAGGCCCAAAGAATCAGGGATTGCACAAGCCAGAGCAATCGAACGGTTCTGAGT
CATCTGCCCGGAAGCCTTGCCCTCAATCAAGGCGGACGTGAAGCATCTACAAAGGAGGA
ATAGTCAAAGCAGCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG
AGGTGGGGGCCTCTGCCAGGTACCGGGCGGGGCAGGCACGGAGGTGCCCAGGTT
CCCGCGGAGGCCACCTCTTCCCTGGAGTGCGTGAGAGAGGGGAAGGGAGGAAGG
CCAGAGCAGGAATCAGAGCGAGGCAAAGGCGGGCAGGAAC~~T~~AGAGAATGACS
GCGGGAGGCGGCCGGGAAAGAA~~T~~CTCTCGGGGCTGTGGGGGT~~C~~CCCTGGCACC
AGCCGGGGTCCCAAGCCCCACCGCGAGACCCCGCGA

FIG. 15b.

5'-ATCGAACGGTTCTGAGTCATCT
5'-CGCTCTGATTCCTGCTCTG

FIG. 16a.

ITCAGTAGAAGGAAGCACAGCAAATTTGCCTTTATAGAGATTCAATTCCTGGTGCTTGG
GCCAAAGAATAAGAATTACATTAAGCAGGCGGGGCACGGTGGCTCACACCTGTAAAC
CAGAACTTTGGGAGGCGGAGGCAGGCAGATCATGAGGTCAGGAGATCGAGACCATCC
TGGACAACATAGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCGGGCATGGTG
GTGCATGCCCTGTAATCCCAGCTACTCAGGAGGCGGAGGCAGGAGAATCCCTTGAACCA
GGGAGTTGGAGGTTGCAGTGAGCCGAGATCACGCCACAGCACTCTAGCCTGGCGACA
GAGTGAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAATTACATTAAGCAGCAGC
AGCAGCAGTGASAGAGGGAAKAATGAAAGAAGAAATTTCTAGAATAAGATTGA
TCTCCAGCACCATGCCAATCATGGACTGGATACAATTCATGCATATCTTTTGTGA
GAGAGGTGAGAGATGTGAATCCTTTCTCATT

FIG. 16b.

5'-AGAAGGAAGCACAGCAAATTTG
5'-GCATGGTGCTGGAGATCAAT

09/581500

FIG. 17a.

7/7

TGGGAGTTAAAGCAGACATTTCGGCTTTNGTGTGGCCAGAGTTCTAACATAAGTTCTTTT
CATCTGGGCAGGCNGATGTTCTTCCATCTTNGAAGNACNGTCTTTTCATTTTTTTAT
TTNGCTTTTGGSKTTTATCTTCTTAGACGTCTTCAGGAGTTKGATTGTAGKGTAAAGGCAG
AITTAGTTGACTGGGCTTTGTTTCTGGAAAATTTAAAGGGGCAAGTCCTGGGCTGCAT
ATTCTTACTCTGGGGGCTTAGTACTGGCCCCATAAATTTGTCTCTGGCTCCTCAAGGTT
AGAAATCTGCTGGCTGGAGGGGCTGAGATGTTCTTGGACTGCTGGCCAGAACATTCCG
CCGGGGGGTGGCAACCGAAGTGTCTTTGGGCAATGGCAGCAGAATTCATGATTGTT
TTCATGTRCCAGCAGCAGTGGCAGCGCAKTGAGTTGCATGATTGTTGGCTGGGGC
TGAGTGCTGGCASGCACTGGAGTGTCTGGCTTCCAGTAGAAATTCACAGCAGTAG
TAGTGGTGGCATGGGAAGGAGGGCAGYGGTGGCATGGGGAGGACCCCC

FIG. 17b.

5'-GGCTGAGATGTTCTTGACTGC
5'- CCTTCCCATGCCACCACTACTA

FIG. 18a.

TGTAATTCCAGCAATTTGGGGAGCCCAAGGCGGGCAGATTTCATGAGTTCGGGAAGAT
 TCGAGACCNTTCTGGCTAAACACGGGGGAAACCCNTTTTTACTAAAAAATACCAAAA
 AATTAACCTGGGCGTGGTGGCGGGCCCCAGCTANTCCGGAGGCTGAGGCCAGGAGAAT
 GGTGTGAACCCGGGAGGCGGAGCTTGCAGTGAGCCGAGATCCCGCTACTGCACTCCA
 GCCTGGGCAATAGAGGGAGACTCCGTCTCAAAAAAAAAAAAAAAAAATAAATAATAAAAA
 AAAATAACAATAATAATACTAATAATTGCTTGATATITTACAAAAGCAAAAGGAAAAGAAG
 ACTAGGCAAGAAAAAAAAAACCTCCTTAGATGGTAGAACTCAGGTTTAAAATTAAACTT
 ATTCTGGTGTCAGSCTAGTTGTATATTTTGACCTCTTTAAATGCTCTGAACATGATATGG
 AGTAACAGCGATGCTGCTGCTGCTGCTGCTGCTGCTGATGGTGGTGGTGTTTTA
 ATATCGAATAAAAGTTGTGGAAACTAAATTTCAATTTCTGCCAATTAACATAAGATT
 GCAAAGTTAAACATCT

FIG. 18b.

5'-TTTGCAATCTTAGTTAATTGGC
5'-GAACTATGATATGGAGTAACAGCG

Activity *Ability* *Spoken* *Quality* *With* *Wrote* *Change* *Place* *At* *The* *To* *In* *By* *Using* *Along*